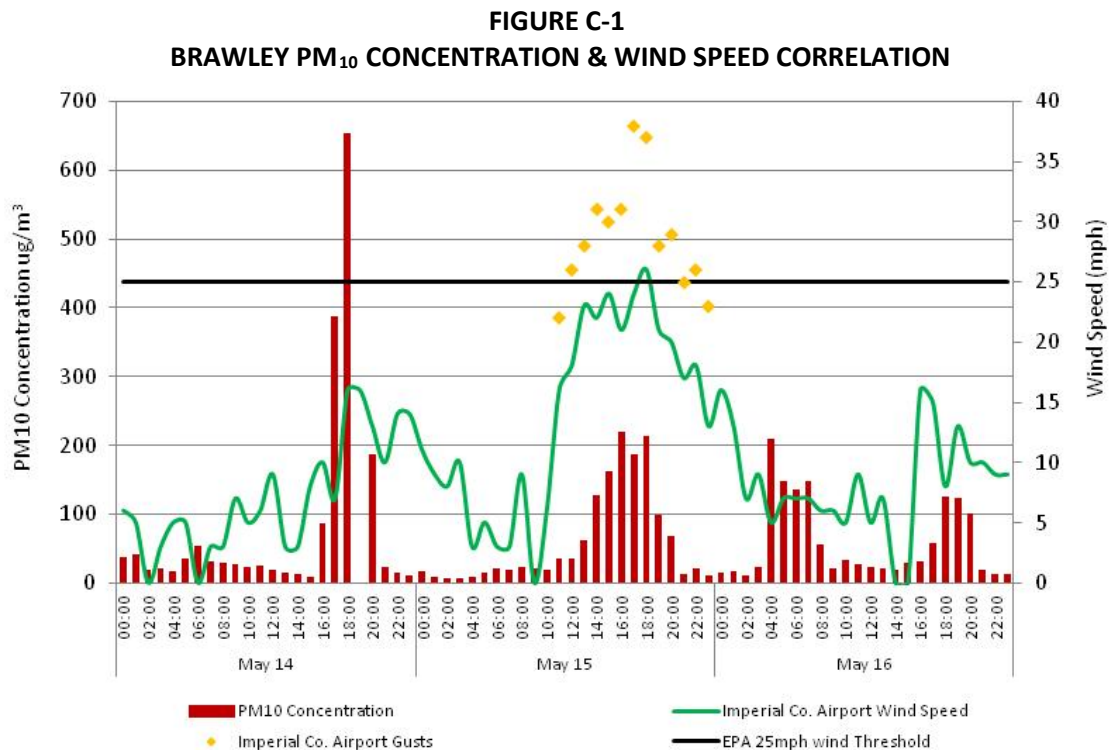


## Appendix C

### Correlated PM<sub>10</sub> Concentrations and Winds

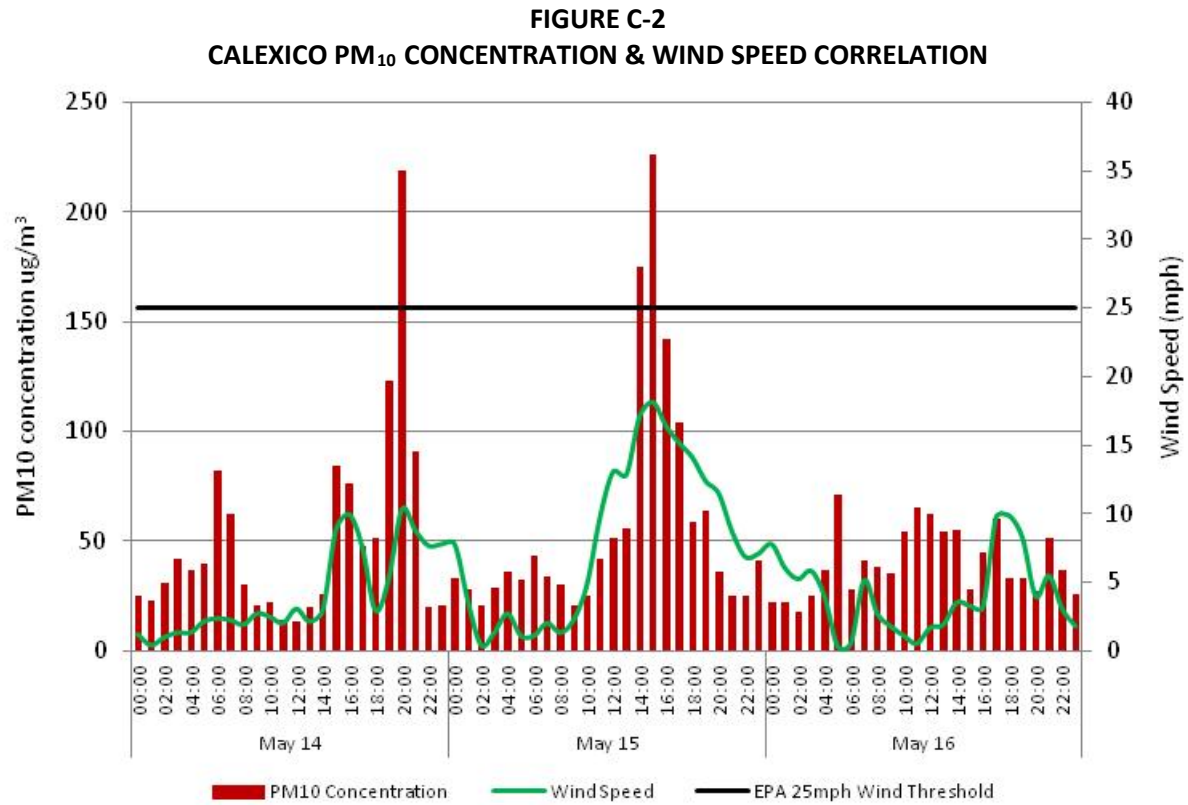
The following graphs illustrate the direct correlation between wind speeds<sup>1</sup> and PM<sub>10</sub> concentrations at select monitoring sites within the Salton Sea Air Basin on May 15, 2016. Note a variety of instruments measure wind speed at different times during any given hour. Therefore, the following graphs reflect the hour of the wind measurement.

#### IMPERIAL COUNTY SELECT SITES (Figures C-1 to C-5)

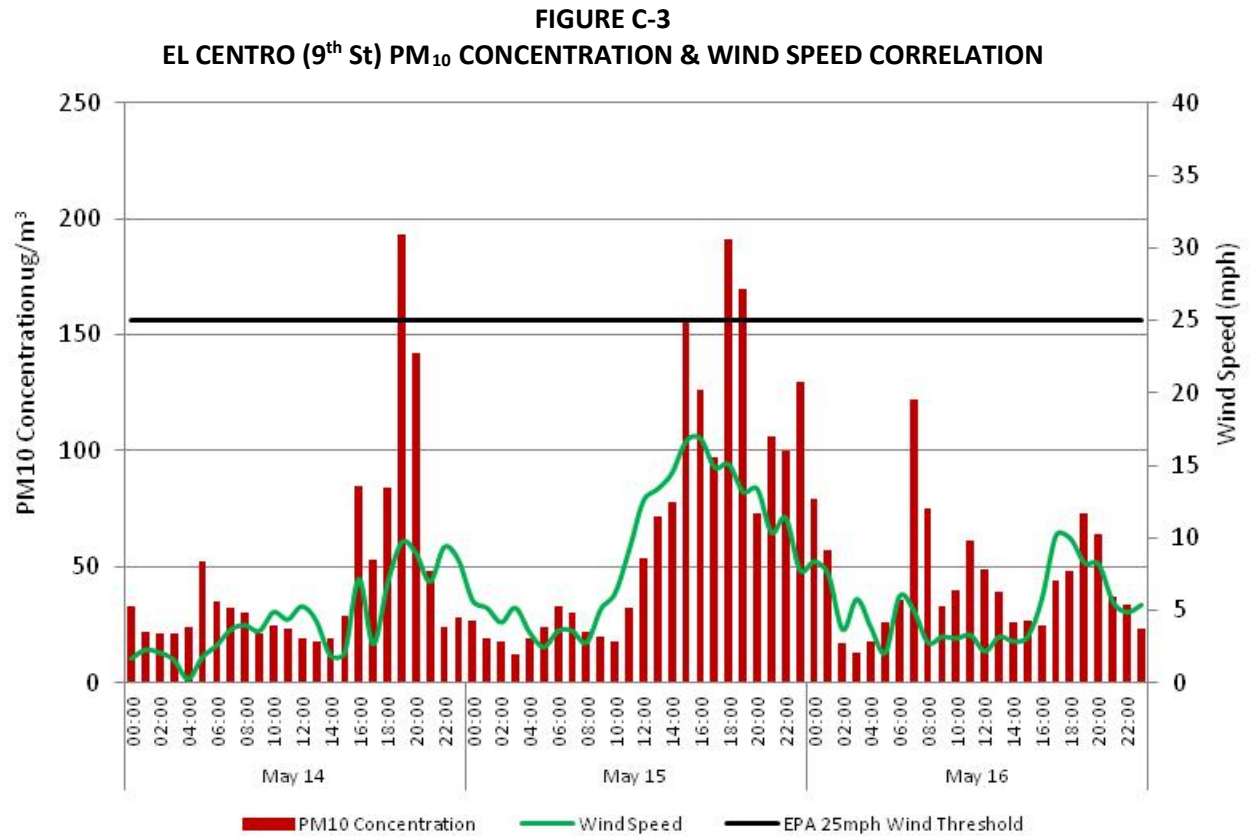


**Figs C-1:** The Brawley monitor saw an increase in concentrations in response to increased winds on May 15. Air quality and wind data from the EPA's AQS data bank. Wind data from the NCEI's QCLCD system.

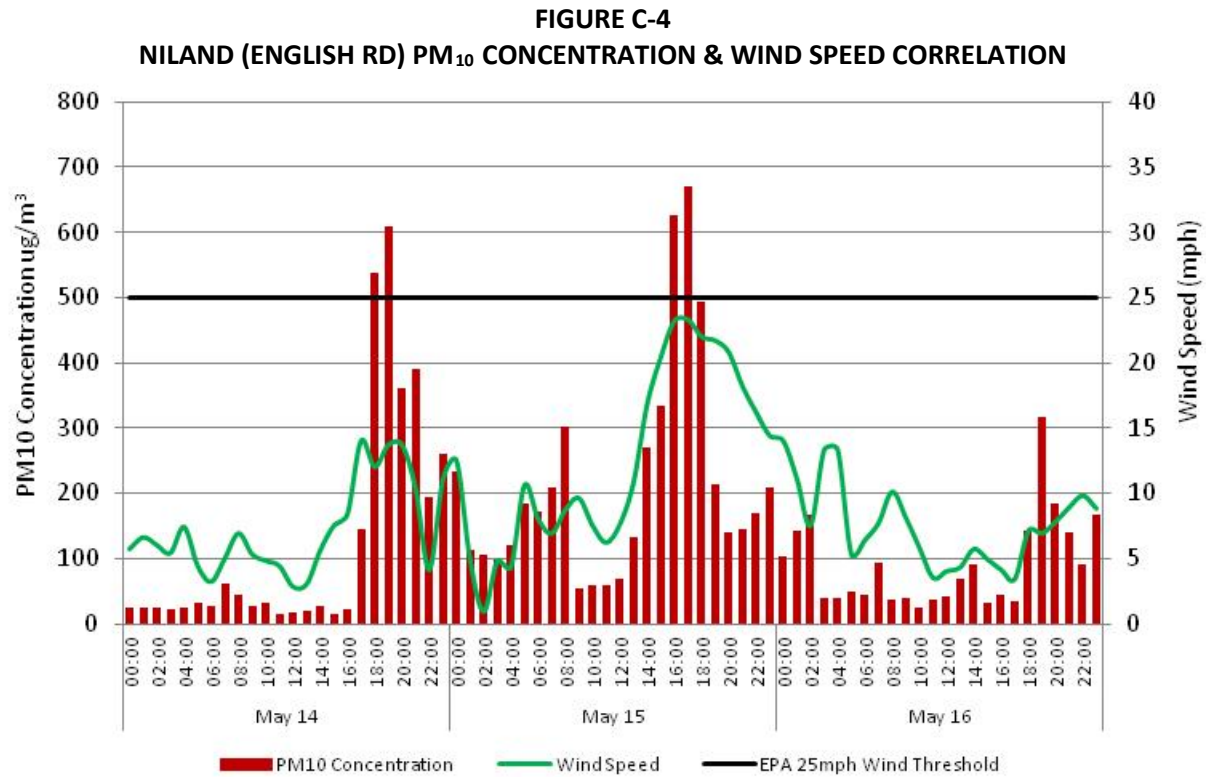
<sup>1</sup> National Weather Service; NOAA's Glossary – Wind Speed: The rate at which air is moving horizontally past a given point. It may be a 2-minute average speed (reported as wind speed) or an instantaneous speed (reported as a peak wind speed, wind gust, or squall); <https://w1.weather.gov/glossary/index.php?letter=w>



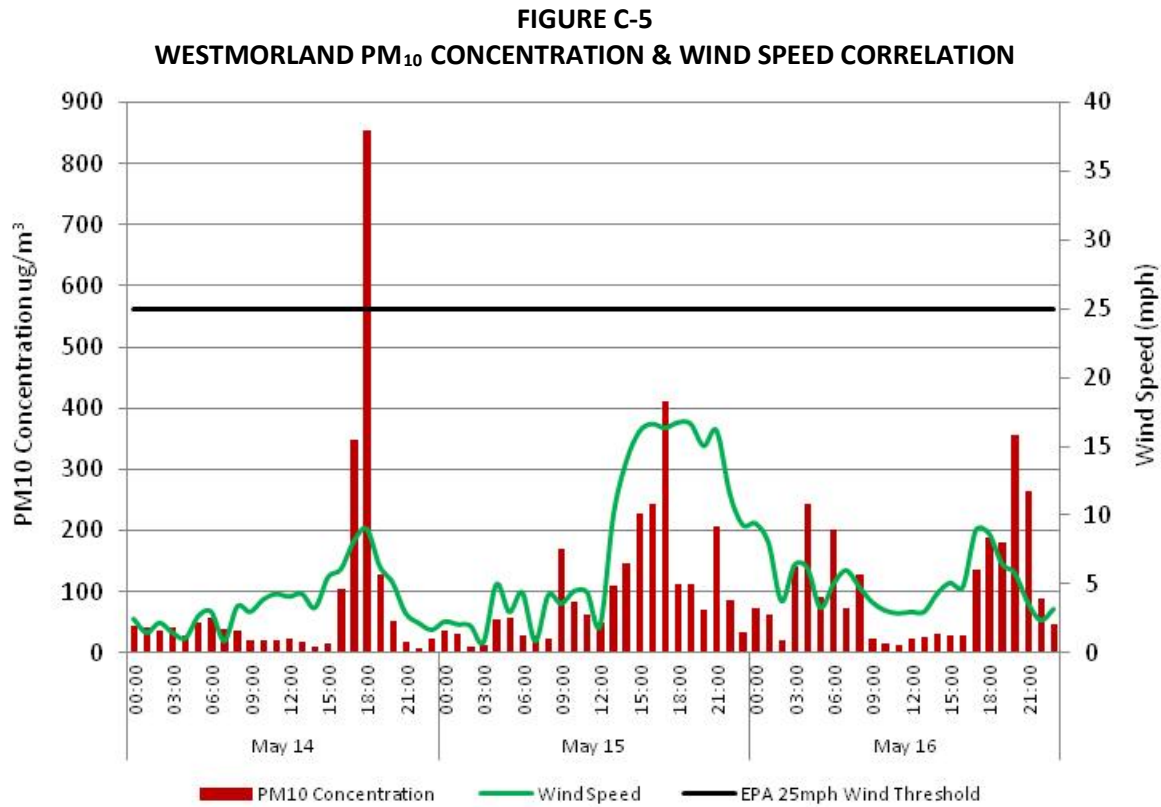
**Fig. C-2:** Calexico experienced spikes in PM<sub>10</sub> concentration in response to increased wind speeds during the early part of May 15, but winds did not rise above the 25 mph threshold. Air quality and wind data from the EPA's AQS data bank.



**Fig. C-3:** El Centro (9<sup>th</sup> St) experienced spikes in PM<sub>10</sub> concentration in response to increased wind speeds on May 15, but winds did not rise above the 25 mph threshold. Air quality and wind data from the EPA's AQS data bank.



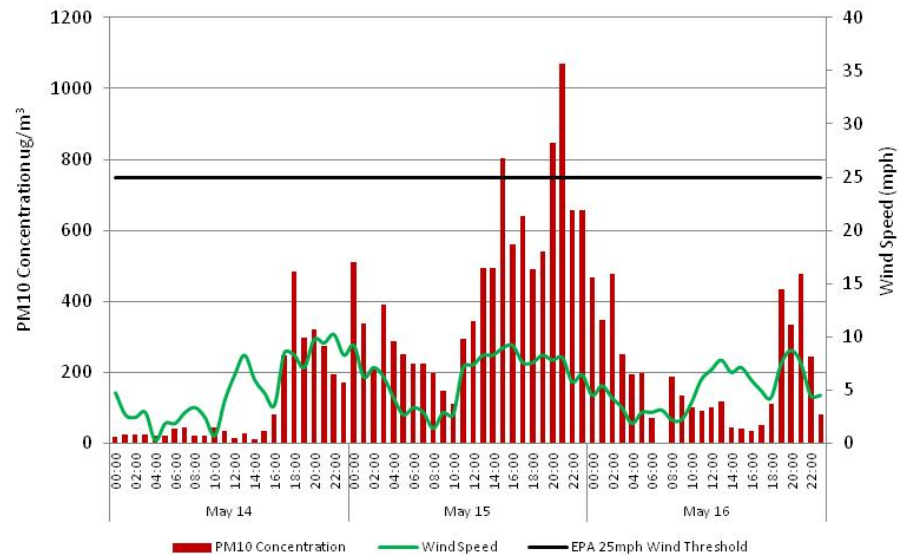
**Fig. C-4:** Niland (English Rd) experienced spikes in PM<sub>10</sub> concentration in response to increased wind speeds early on May 15, and again in the afternoon. Air quality and wind data from the EPA's AQS data bank.



**Fig. C-5:** Westmorland experienced spikes in PM<sub>10</sub> concentration in response to increased wind speeds on May 15, although winds never exceeded the 25 mph wind threshold. Air quality and wind data from the EPA's AQS data bank.

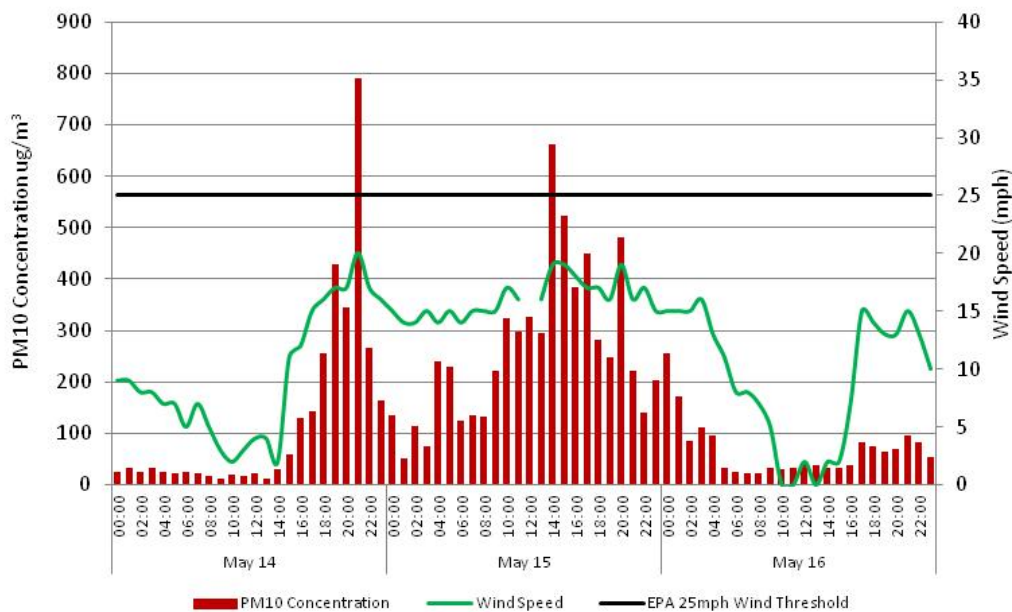
## RIVERSIDE COUNTY MONITORING SITES

**FIGURE C-6**  
**TORRES-MARTINEZ TRIBAL PM<sub>10</sub> CONCENTRATION & WIND SPEED CORRELATION**



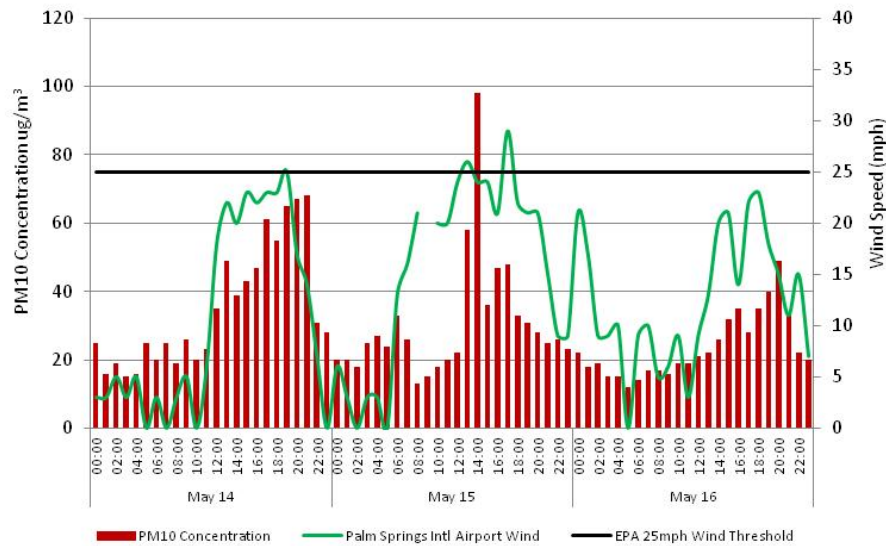
**Fig. C-6:** The Torres-Martinez Desert Cahuilla Indian Reservation experienced spikes in PM<sub>10</sub> concentration in response to increased wind speeds on May 15, although winds never exceeded the 25 mph wind threshold. Air quality and wind data from the EPA's AQS data bank.

**FIGURE C-7**  
**INDIO (JACKSON ST) PM<sub>10</sub> CONCENTRATION & WIND SPEED CORRELATION**



**Fig. C-7:** Indio (Jackson St) experienced spikes in PM<sub>10</sub> concentration in response to increased wind speeds on May 15, although winds never exceeded the 25 mph wind threshold. Air quality data is from the EPA's AQS data bank. Wind data is from AQMIS.

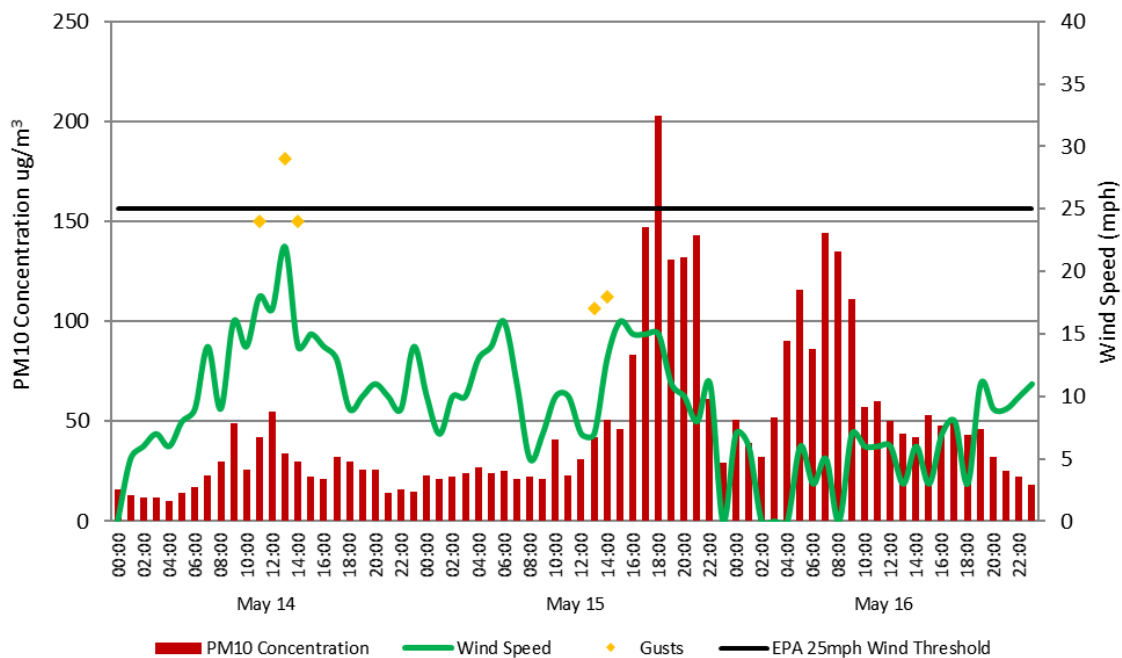
**FIGURE C-8**  
**PALM SPRINGS FIRE STATION PM<sub>10</sub> CONCENTRATION & WIND SPEED CORRELATION**



**Fig. C-8:** Palm Springs Fire Station saw increased concentrations following an increase of wind speed on March 6. Air quality data is from the EPA's AQS data bank. Wind data is from the NCEI's QCLCD system.

### SOUTHWESTERN ARIZONA

**FIGURE C-5**  
**YUMA, ARIZONA SUPERSITE PM<sub>10</sub> CONCENTRATION & WIND SPEED CORRELATION**



**Fig. C-9:** The Yuma, Arizona Supersite showed elevated concentrations toward the end of the day on May 15. Air quality data is from the EPA's AQS data bank. Wind data is from the NCEI's QCLCD system. Yuma shown in PST.